ABSTRACT OF THE DISCLOSURE

Fragmentation and reassembly of a multi-part message for communication over a cellular network. When transmitting a multi-part message, a calling application issues a function call to a short messaging layer via a standardized interface. The function call represents a request to transmit the message. A short messaging layer divides the message into fragments of limited size that meet the size requirements of the cellular network. Each of the short messages is then transmitted across the cellular network. When receiving a multi-part message, a short messaging layer at the receiving device receives various short message fragments corresponding to the multi-part message. The short messaging layer then reassembles the short message fragments into the multi-part message, and then passes the reassembled multi-part message to the receiving application. The short message layer also presents a consolidated delivery report if requested.

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